

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 11:55:20 ON 15 JAN 2004

=> file agricola biosis embase caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

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FULL ESTIMATED COST

0.21

0.21

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=> s bombardment and transform? and optimiz?

L1 229 BOMBARDMENT AND TRANSFORM? AND OPTIMIZ?

=> duplicate remove l1

DUPLICATE PREFERENCE IS 'AGRICOLA, BIOSIS, EMBASE, CAPLUS'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L1

L2 152 DUPLICATE REMOVE L1 (77 DUPLICATES REMOVED)

=> s l2 and maize

L3 16 L2 AND MAIZE

=> d l3 1-16 ti

L3 ANSWER 1 OF 16 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN

TI Green-fluorescent protein facilitates rapid in vivo detection of genetically ***transformed*** plant cells.

L3 ANSWER 2 OF 16 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN

TI Transgenic Italian ryegrass (Lolium multiflorum) plants from microprojectile ***bombardment*** of embryogenic suspension cells.

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=> s maize and bombardment and embryo and immature and fresh
L1 3 MAIZE AND BOMBARDMENT AND EMBRYO AND IMMATURE AND FRESH

=> d l1 1-3 ti

L1 ANSWER 1 OF 3 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI A comparison of methods for direct gene transfer into ***maize*** (Zea
mays L.).

L1 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
TI Establishment of a genetic transformation system for ***maize***
inbred P9-10

L1 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
TI A comparison of methods for direct gene transfer into ***maize*** (Zea
mays L.)

=> d l1 1-2 ibib ab

L1 ANSWER 1 OF 3 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 1998:433838 BIOSIS
DOCUMENT NUMBER: PREV199800433838
TITLE: A comparison of methods for direct gene transfer into
maize (Zea mays L.).
AUTHOR(S): Southgate, E. M.; Davey, M. R. [Reprint author]; Power, J.
B.; Westcott, R. J.
CORPORATE SOURCE: Plant Res. Group, Dep. Life Science, Univ. Nottingham,
University Park, Nottingham NG7 2RD, UK
SOURCE: In Vitro Cellular and Developmental Biology Plant,
(July-Sept., 1998) Vol. 34, No. 3, pp. 218-224. print.
CODEN: IVCPEO. ISSN: 1054-5476.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 7 Oct 1998
Last Updated on STN: 7 Oct 1998
AB Techniques for transforming intact tissues of cereals were evaluated for
their efficacy in transforming ***immature*** ***embryos*** and
Type II callus of ***maize*** (Zea mays L.). The techniques used were
particle ***bombardment***, tissue electroporation, tissue
electrophoresis, and silicon carbide fibers. Each method was assessed in
terms of transient beta-glucuronidase (GUS) expression. High levels of
GUS expression were observed in A188 Type II callus using both tissue
electroporation and particle ***bombardment***, with means of 417.8
and 954.5 blue expression units (beu) per g ***fresh*** weight (FW)
callus, respectively. Only particle ***bombardment*** resulted in
high transient gene expression in ***immature*** ***embryos***,
with a mean transformation frequency of 34.8 b.e.u. per ***embryo***.
Very low levels of GUS expression were achieved with silicon
carbide-mediated gene transfer, even when employing tissues used in the

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FULL ESTIMATED COST	ENTRY	SESSION
	0.18	29.73
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	0.00	-0.69

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=> s transformation and maize and particle and embryo and immature
L6 38 TRANSFORMATION AND MAIZE AND PARTICLE AND EMBRYO AND IMMATURE

=> dplicate remove l6
DPPLICATE IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> duplicate remove l6
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L7 21 DUPLICATE REMOVE L6 (17 DUPLICATES REMOVED)

=> d l7 1-10 ibib ab

L7 ANSWER 1 OF 21 AGRICOLA Compiled and distributed by the National
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ACCESSION NUMBER: 2003:42972 AGRICOLA
DOCUMENT NUMBER: IND23332513
TITLE: Gametic ***embryos*** of ***maize*** as a
target for biolistic ***transformation*** :
comparison to ***immature*** zygotic
embryos
AUTHOR(S): Aulinger, I.E.; Peter, S.O.; Schmid, J.E.; Stamp, P.
AVAILABILITY: DNAL (QK725.P54)
SOURCE: Plant cell reports, Feb 2003. Vol. 21, No. 6. p.
585-591
Publisher: Berlin : Springer-Verlag.
CODEN: PCRPD8; ISSN: 0721-7714
NOTE: Includes references
PUB. COUNTRY: Germany
DOCUMENT TYPE: Article

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FULL ESTIMATED COST	0.21	0.21

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=> s immature(w)maize(w)embryo and microprojectile

L1 3 IMMATURE(W) MAIZE(W) EMBRYO AND MICROPROJECTILE

=> d l1 1-3 ibib ab

L1 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:1004361 CAPLUS

DOCUMENT NUMBER: 140:1574

TITLE: Methods for transformation and regeneration of
immature corn embryos

INVENTOR(S): Ranch, Jerome P.; Marsh, Wallace A.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 18 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002120961	A1	20020829	US 2001-993080	20011113
PRIORITY APPLN. INFO.:			US 2000-248427P	P 20001114
AB Methods are provided for transforming freshly isolated, ***immature*** ***maize*** ***embryos*** and for producing transgenic maize plants.				

The immature corn embryos are obtained 6 to 14 days following pollination. The methods comprise obtaining immature embryos from a maize plant, contacting the embryos with an auxin-depleted or phytohormone-depleted transformation support medium and introducing a nucleotide construct into cells from the embryos prior to subjecting the embryos to conditions which promote embryogenic-tissue formation. Transformation is performed using ***microprojectile*** bombardment device. The methods addnl. comprise

.beta.-glucosidase activity. The invention also presented information on:
 (1) the mRNA expression of .beta.-glucosidase genes in rhm1 plants before
 and after inoculation with a pathogen (Cochliobolus heterostrophus or
 Bipolaris maydis) and (2) free DIMBOA (2,4-dihydroxy-7-methoxy-1,4-
 benzoxazin-3-one) levels (the product of .beta.-glucosidase acting upon
 DIMBOA glucosides) in rhm1 verses wild-type plants.

=> FIL STNGUIDE

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FULL ESTIMATED COST	18.15	18.36
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.08	-2.08

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	ENTRY	SESSION
FULL ESTIMATED COST	1.68	20.04
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-2.08

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=> s maize(w)embryo and bombardment

L2 16 MAIZE(W) EMBRYO AND BOMBARDMENT

=> duplicate remove l2

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L3 11 DUPLICATE REMOVE L2 (5 DUPLICATES REMOVED)